

[54] **STYRENE-BUTADIENE INTERPOLYMER
LATEX BASED CEMENT ADDITIVES
CONTAINING A SILANE**

[75] Inventors: **James Peters; Victor E. Meyer**, both
of Midland, Mich.

[73] Assignee: **The Dow Chemical Company**,
Midland, Mich.

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[58] Field of Search **260/29.7 S, 29.7 R**

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Primary Examiner—M. J. Welsh

Attorney, Agent, or Firm—R. G. Brookens; S. S. Grace

[57]

ABSTRACT

Cement compositions having improved strength and enhanced adhesion to siliceous substrates are obtained by admixing Portland cement with a cement additive comprising (1) a styrene-butadiene interpolymeric latex containing up to about 60 parts by weight of interpolymer solids, said latex being present in an amount sufficient to provide from about 5 to about 25 parts by weight of latex polymer solids based on the weight of cement and (2) from about 0.05 to about 3 parts by weight of latex solids of a silane of the formula $ZSi(OR')_3$ wherein Z is a member selected from the group consisting of hydrocarbon groups and substituted hydrocarbon groups in which the substituent is bonded to the silicon atom through at least one carbon atom, and R' is selected from the group consisting of alkyl radicals of from 1 to 3 carbon atoms, $-CH_2CH_2OR''$ and $-CH_2CHOH$ where R'' is an aliphatic hydrocarbon radical of 1 to 3 inclusive carbon atoms.

16 Claims, No Drawings